

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014677 A1

- (51) International Patent Classification⁷: **C08F 246/00**,
C09K 19/38, G02F 1/1337, C08F 220/30
- (21) International Application Number:
PCT/EP2004/051425
- (22) International Filing Date: 8 July 2004 (08.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1244/03 16 July 2003 (16.07.2003) CH
- (71) Applicant (for all designated States except US): **Huntsman Advanced Materials (Switzerland) GmbH** [CH/CH]; Klybeckstrasse 200, CH-4057 Basel (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **STUDER, Peggy** [FR/FR]; 13, rue du Président Wilson, F-68330 Huningue (FR). **SCHEIFELE, Patrick** [CH/CH]; Witterswilerfeldweg 35, CH-4106 Therwil (CH). **MATSUMOTO, Yonetatsu** [JP/JP]; 2-2-33 Mikatadai, Nishi-ku, Kobe, 651-2277 (JP). **STÖSSEL, Richard** [CH/CH]; Rösenstrasse 38, CH-4402 Frenkendorf (CH).
- (74) Agent: **MAUÉ, Paul Georg**; Solvias AG, Patents, WKL-402.3.04, Klybeckstrasse 191, CH-4002 Basel (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: POLYMERIZABLE COPOLYMERS FOR ALIGNMENT LAYERS

(57) Abstract: Composition comprising at least one ethylenically unsaturated monomer to which a photochemically isomerizable or dimerizable molecule is covalently bonded, and at least one ethylenically unsaturated monomer to which a sensitizer is covalently bonded, are outstandingly suitable for producing polymeric alignment layers for liquid crystals.

WO 2005/014677 A1